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IAD/OSS-256/66  
23 November 1966

MEMORANDUM FOR: Assistant for Technical Development, NPIC

ATTENTION : [ ] Development Staff  
FROM : Chief, Imagery Analysis Division, CIA  
SUBJECT : Proposed Automatic Viewgraph Generator  
REFERENCE : [ ] Technical Proposal  
Number 66-3560-1, dated 2 November 1966

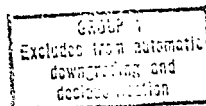
1. The Imagery Analysis Division was pleased to have an opportunity to review [ ] proposal for development of an Automatic Viewgraph Generator.

2. As you are aware, the IAD is often faced with high priority requirements requiring rapid response; an Automatic Viewgraph Generator would greatly facilitate handling such requirements. It is anticipated that this device would make a significant contribution toward increasing this division's rapid response capabilities. The capability of rapidly producing, at low cost, viewgraphs "in-house" should be of prime benefit to our efforts in support of OCI (following each mission) and to our many requirements for high priority briefings on short notice.

3. An Automatic Viewgraph Generator would fill a presently existing gap in the family of "in-house", "quick and dirty", reproduction devices presently used in IAD; such as the RIPP, the Photogrammetry Quick Copy Cameras, the [ ] Photo-Micrographic Enlargers, the MP3 poloroid Lantern Slide generation capability, and the [ ] PI Rapid Copy Viewer/Printer presently under consideration. The numerous staff studies and cost/effectiveness analyses made by IAD to support the concept of "in-house" graphics preparation provide a background of information against which we have evaluated this proposal; concluding that such a device would not only increase our operational effectiveness, but would offer significant manpower and operating cost reductions.

Declass Review by NGA.

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X1 4. In light of the above comments, the Imagery Analysis Division feels that it would be prudent to accept the [ ] offer to construct two of these devices simultaneously. We feel that this development is on firm technical footing with a relatively low risk of failure; since this device is, in all honesty, a modification of existing and successful shelf hardware. We feel that our operational requirement for this device more than justifies the expenditure of an additional [ ] to procure two units (one for PD and one for IAD) rather than one.

5. The Imagery Analysis Division is appreciative of past efforts of your staff which have resulted in many of our "in-house" capabilities, and feel that your efforts on our behalf in this development project will lead to equally successful results.

Distribution

Original - Addressee  
2 - OSS/IAD

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NPIC/PD 2-67  
5 January 1967

MEMORANDUM FOR: Assistant for Technical Development

SUBJECT : Publications Division Requirement for a "Vugraph Maker"

1. This will assure you that the Publications Division is still as interested in a rapid means for preparing positive transparencies of imagery for incorporation in vugraphs as it was last summer when the request to develop such a device was initially made.

2. The modified version of the [ ] platemaster, as subsequently developed to specifications, seems to meet this need. Not only would it produce transparencies of suitable size extremely rapidly, but it would also enlarge or reduce the copy, thus providing a wide range of flexibility. As you know, [ ] of the Publications Division made a trip [ ] of IAD to see samples of the product and to discuss technical specifications with one of [ ] staff engineers. He reported complete satisfaction with the sample products made using the [ ] diffusion transfer process as well as with performance specifications for the film.

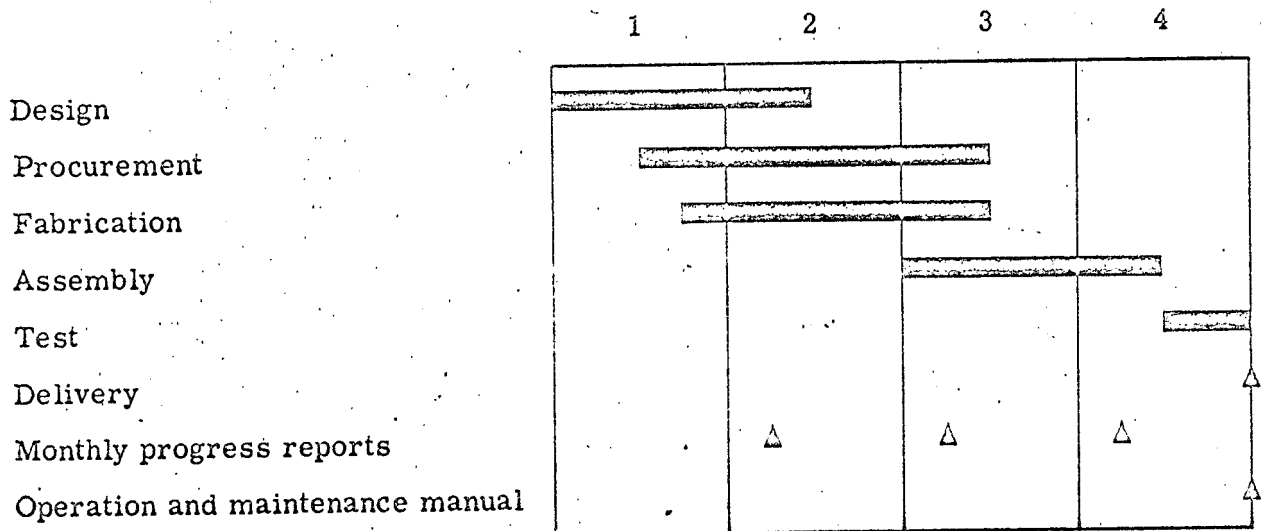
3. Acquisition of such a piece of equipment would provide a quick reaction time for the preparation of special-purpose vugraphs which now require priority handling in the lab to meet crash deadlines. The acquisition of such a piece of equipment should also put the Center in a position to speed up service in an area where it has long been weakest, namely in the after-the-mission phase of intelligence dissemination.

[ ]  
Chief, Publications Division, NPIC

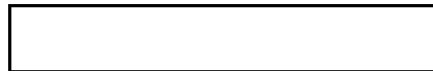
### 3. STATEMENT OF WORK

The proposed program will be accomplished as indicated in the following program schedule. The four primary categories of effort will be design, fabrication, assembly, and test. During the early phases of the program, human factors engineers will thoroughly evaluate and analyze the equipment operational characteristics to ensure an optimized man-machine relationship. The performance characteristics of the equipment deliverable under this procurement will be in accordance with the design and performance specifications listed in Section 4.

Program Schedule, months



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ANALYSIS FOR

VU-GRAPH GENERATOR

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PROJECT 9619

12 September 1967

VUGRAPH GENERATOR

PROJECT 9619

- A. The estimate at completion for two Vugraph Generators is [ ] the cost level resulting in an extra expenditure of [ ]  
The estimate at completion for one Vugraph Generator is [ ] at the cost level resulting in an extra expenditure of [ ]

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Of the [ ] worth of parts purchased for the two unit contract, only [ ] worth of these parts can be returned for credit since many of the parts were already in the process of remanufacture. Therefore, [ ] worth of parts cannot be returned and only a small reduction in the cost can be achieved by this means. It should be pointed out, however, that 25% of these non-returnable parts could be used as spares for unit No. 1.

The schedule for this project when additional funding is received will require more time than provided for in the original contract. To provide two units as per original contract, 12 weeks time will be needed from any new start date. If the customer desires only 1 unit, 9 weeks will be required from the project start date.

- B. The overrun in schedule and dollars on Project 9619 is due to the combined impact of the following:

1. The prime reason for the overrun is that a great deal more engineering and design time was necessary than originally estimated to achieve a design which would satisfy the customer's requirements and provide the Government with a more usable piece of equipment.

This is reflected in a 40% decrease in purchased part expenditures but an increase of some [ ] in engineering and design labor hours.

*No modification.*

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The areas requiring change from the modified [ ] Platemaster concept originally proposed were in providing proper copy board coverage for the magnification ranges required. This requirement necessitated changes in the optics, copy board orientation, and film magazine positioning and extensive re-design and remanufacture of purchased parts.

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2. [ ] overhead increased from a negotiated rate of 142% with a 13.7% G&A to 150% overhead with a 17% G&A during the span of the contract, producing an added cost impact of [ ]

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*OK*

- C. The Total Estimated Cost Summary for two units is shown on page 3.  
The Total Estimated Cost Summary for one unit is shown on page 4.  
The Labor Hours Summary for two units is shown on page 5.  
An analysis of purchase components, denoting returnable and non-returnable items is shown on pages 6 and 7.

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